



Order Specification for Type CSVS Current and Voltage Sensors

Please contact our Application Engineering personnel at (704) 392-1396 if you require assistance in completing the Order Specification checklist. In the event that we must contact you to confirm your information, please provide a contact name and phone number.

Organization _____ Contact (Name) _____

Phone Nbr _____ E-Mail Address _____

1.00 Sensor Unit

- 1.01 Number of Sensor Units required _____
- 1.02 Nominal Voltage (line to line) _____ kV (7.5, 15, 25, 34.5, 46, 69, 115, 138, 161, 230, 345, 500)
- 1.03 Maximum Continuous Current Rating _____ Amp (600, 1200, 2000, Other)
- 1.04 BIL Rating _____ kV (95, 110, 150, 200, 250, 350, 550, 650, 750, 900, 1050, 1300, or 1470)
- 1.05 Mounting orientation shall be vertical (upright) _____, horizontal (cantilever) _____, under-hung _____, other _____
- 1.06 Type of mounting structure _____ (Specify pole, cross-arm, truss, pedestal, column, etc.); drawing with dimensions available _____ (Yes, No). If yes, please attach drawing
- 1.07 NEMA four hole aluminum terminal pads are provided on each Sensor Unit as standard equipment. Other terminal pad or bus/cable connector configurations can be provided. Please refer to the sensor catalog section for the standard four hole terminal pad dimensions. Terminal pad will _____, will not be _____ standard configuration.

2.00 Output Unit

- 2.01 Please complete the Signal Input/Output/Mapping Diagram at the end of this document in conjunction with the information requested below.
- 2.02 The Output Unit can receive up to three current and three voltage inputs, and provides up to three current and three voltage outputs. A single Output Unit can provide three phase monitoring or alternately, the input signal from a single Sensor Unit can be used to provide up to three current and voltage output signals for six separate load devices (relays, meters, rtu's, etc.)
- 2.03 Current output signals are available with a standard format of 0-1 amp and optional formats of 0-.5 amp or 0-10 VAC (1.44 VA). Burden resistance range is 0 to 2 ohms.
- 2.04 Voltage output signals are available with standard formats of 0-115 and 0-67 VAC, and an optional 0-10 VAC. Standard VA is 1.44 but optional 15 and 25 VA are available for the 0-115 and 0-67 VAC outputs.

Other current and voltage output formats may be supported. Please contact the factory if your device requirements are other than the standard formats presented here.



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2.00 Output Unit cont'd

- 2.05 Number of required current output signals per Sensor Unit _____ (i.e. 1:1, 2:1, or 3:1)
- 2.06 Required format for current output signal 1 _____, output signal 2 _____, output signal 3 _____
(Specify 0-.5 Amp, 0-1 Amp, 0-10 VAC, or 0 for null)
- 2.07 Description of devices connected to each current output signal _____

- 2.08 Number of required voltage output signals per Sensor Unit _____ (i.e. 1:1, 2:1, or 3:1)
- 2.09 Required format for voltage output signal 1 _____, output signal 2 _____, output signal 3 _____
(Specify 0-115, 0-67 or 0-10 VAC, or 0 for null)
- 2.10 Required VA of voltage output signal 1 _____, output signal 2 _____, output signal 3 _____
(Specify 1.44, 15, 25, or 0 for null)
- 2.11 Description of devices connected to each voltage output signal _____

3.00 Power Source/Enclosure

- 3.01 Available customer supplied power source for the Output Unit _____
(Specify 24, 48, 125 VDC or 120 VAC)
- 3.02 An optional SEECO supplied 24 VDC power source is available, which includes batteries, battery charger, and a battery testing mechanism; optional power source requires customer supplied 120 VAC. Optional 24 VDC power source will _____, will not be _____ required
- 3.03 For geographically remote applications an optional SEECO supplied solar power source is available, which includes solar panels, mounting brackets, connection cables, batteries, trickle charger, and a battery testing mechanism. Optional solar power source will _____, will not be _____ required.
- 3.04 An enclosure is provided with the Output Unit by SEECO; it is sized specifically for the requirements of the Output Unit. Please refer to the sensor catalog section for dimensions on both the standard and (optional) large enclosure
- 3.05 Other customer supplied equipment will _____, will not be _____ housed in this enclosure. If yes, please identify the equipment to be housed _____

If solar option is required installation location will be _____ at latitude _____, longitude _____. The total current draw (load) of all associated equipment (rtu, radio, etc.) that will be supported by the solar power source is _____ amps



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4.00 Communication Cable

- 4.01 Communication cable can be ordered in 10' increments up to a maximum length of 4000'. One cable is required per Sensor Unit.
- 4.02 Length of cable 1 _____, cable 2 _____, cable 3 _____

5.00 Options

Sensor Unit

- 5.01 A mounting bracket or structure for the Sensor Unit will be required _____ (Yes, No); drawing with dimensions available _____ (Yes, No). If yes, please attach drawing.
- 5.02 Custom terminal pad or bus/cable connector configuration will be required _____ (Yes, No); drawing with dimensions available _____ (Yes, No). If yes, please attach drawing.
- 5.03 Tin dipped aluminum terminal pad for copper conductor will be required _____ (Yes, No)

Output Unit

- 5.11 Will devices connected to the Output Unit require a non-standard format? _____ (Yes, No); If yes, please describe _____

Power Source/Enclosure

- 5.21 A custom or non-standard enclosure will be required _____ (Yes, No); drawing with dimensions available _____ (Yes, No). If yes, please attach drawing.
- 5.22 A mounting bracket or structure for the Enclosure will be required _____ (Yes, No); drawing with dimensions available _____ (Yes, No). If yes, please attach drawing.
- 5.23 If optional SEECO supplied 24 VDC power source is required please indicate the additional features to be included: 24/12 (2.5A) DC-to-DC converter _____ (Yes, No), 24/48 (1.25A) DC-to-DC converter _____ (Yes, No), main AC breaker _____ (Yes, No), main DC breaker _____ (Yes, No), AC knife switch _____ (Yes, No), sliding link or other special terminal block arrangements _____ (Yes, No)
- 5.24 Other 24 VDC power source requirements _____



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6.00 Miscellaneous

6.01 If the information provided above has not completely captured or conveyed the requirements of your application, please add any additional information or comments here



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Signal Input/Output/Device Mapping Diagram - This work sheet is provided as an aid to assist you in identifying the required sensor system components for your application and the communication pathway from these components to your devices. Please consult the factory if assistance is need to complete this input sheet.

Specify the BIL and continuous current rating of each Sensor Unit. Up to three Sensor Units of the same or different configuration can share one Output Unit in the same application.

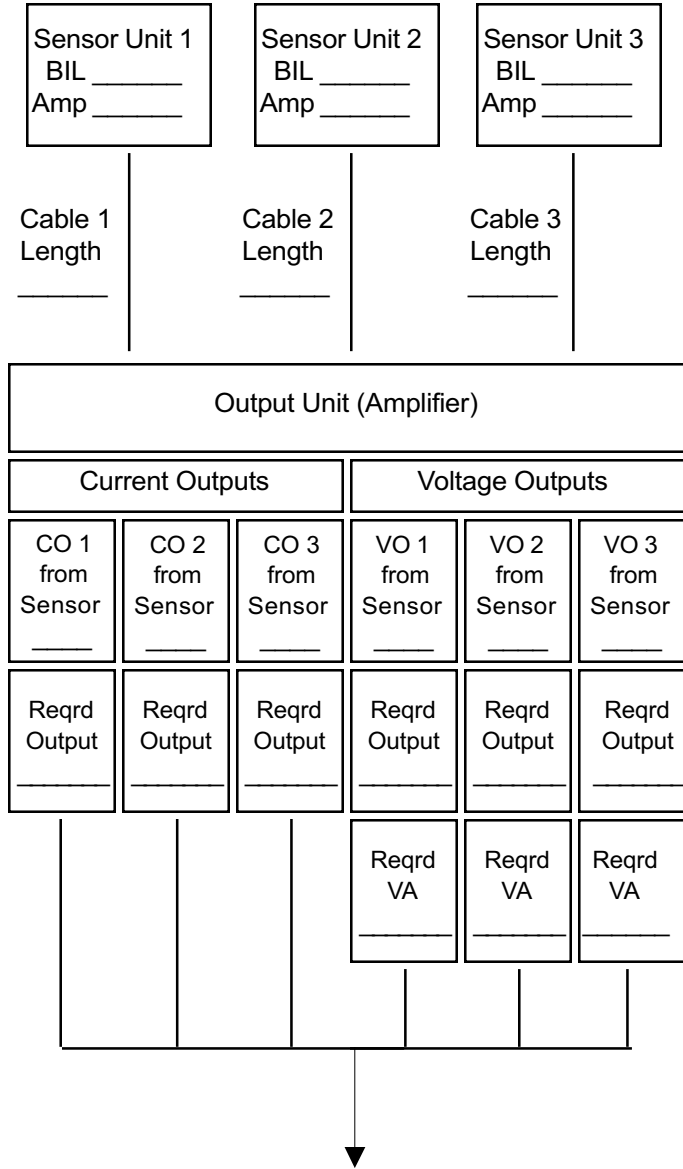
Specify the required length of each communication cable; cable lengths can be provided in 10' increments up to a maximum length of 4000'. One communication cable is required per Sensor Unit.

The Output Unit accepts up to three current and three voltage inputs and provides up to three analog current and three analog voltage outputs. Each Sensor Unit can also support multiple devices (1-3 output signals) but not to exceed the Output Unit total capacity of three current and three voltage.

The Output Unit can be provided with current output signals of 0-.5 Amp, 0-1 Amp or 0-10 VAC, and voltage output signals of 0-115, 0-67 VAC, or 0-10 VAC. Standard VA is 1.44 but with optional 15 and 25 VA for the 0-115 and 0-67 outputs.

For each current output signal specify the origin Sensor Unit (1, 2, 3) and the required output (0-.5A, 0-1A or 0-10 VAC). For each voltage output signal specify the origin Sensor Unit (1, 2, 3), the required output (0-115, 0-67, or 0-10 VAC) and the required VA (1.44, 15, 25).

For each customer device specify the device type (meter, relay, rtu, etc.), the brand or manufacturer and catalog number.



	Device 1	Device 2	Device 3	Device 4	Device 5	Device 6
Device Type	_____	_____	_____	_____	_____	_____
Brand (Mfgr)	_____	_____	_____	_____	_____	_____
Catalog Nbr	_____	_____	_____	_____	_____	_____